II. CLAIM AMENDMENTS

Please cancel claim 4 without prejudice, amend daims 1, 3 and 5-15, and add claims 18-20 as follows:

Claim 1. (currently amended) A system for providing a plurality of different combinatorial catalyst materials [, each] for [subsequent] evaluation [in a predetermined operation] comprising:

a physical vapor deposition apparatus including a sealable chamber having an access means, the chamber including a plurality of separately controllable plasma sources <u>radially disposed about a central location within</u> the chamber such that the plasma directed from the source may be focused <u>upon the central location</u> and at least one substrate <u>disposed at the central location of the chamber</u> having [an area] a plurality of discrete separated areas thereon to which the plasma is directed [from a plasma source], at least one of the plurality of separately controllable plasma sources comprising a cluster of more than one plasma gun [arranged in a cluster,] oriented such that each gun in the cluster is focused toward the central location [substrate];

the at least one substrate being controllably positionable within the chamber such that a selected area upon the substrate may be positioned in accordance with a matrix of x, y and z coordinates in an alignment with respect to the focus of [such that separate areas defined upon the surface of

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the substrate are selectively capable of being individually aligned with respect

to] each of the plurality of separately controllable plasma sources;

a means for controlling the plasma sources and the substrate such that

each selected [separate] area [defined] upon the substrate may be

sequentially aligned with respect to each plasma source according to

predetermined parameters that determine the exposure of the area to one or

more than one of the controllable plasma sources.

Claim 2. (original) The system of claim 1 in which the means for controlling the

plasma sources comprises [a controlling table] programmable parameters

determining for a specified flux of plasma power and time, the characteristics of

the material deposited by the plasma source upon the selected area of the

substrate.

Claim 3. (currently amended) The system of claim 1 in which the substrate is

positioned with respect to a rotator [mechanism] centrally disposed within the

chamber such that the selected area of the substrate dan be [sequentially

directed rotated within the central location of the chamber to align the area with

the focus of the [separately to] one or more [clusters of] plasma sources [in the

chamber].

Claim 4. (cancelled)

Claim 5. (currently amended) The system of claim 2 or claim 3 [or claim 4] wherein the substrate is a plane surface and [in which] the approximate focus of each plasma source and the plane surface [approximate transverse center] of the substrate are each maintained within the chamber in alignment with each other [approximately the same plane].

substrate includes multiple separately defined circular areas and is centrally positioned within the chamber, the substrate being [and is] moveable with respect to a program controlled x-y table such that [the separate areas defined] each separately defined area upon the surface of the substrate [are] may be

positioned by control means for the x-y table in essential alighment with the focus

(currently amended) The system of claim 3 [or daim 4] in which the

of [the] one or more than one [of the] plasma source[s].

Claim 7. (currently amended) The system of claim 3 in which each plasma source is positioned within the chamber at a same distance from the central

location [coating spot].

Claim 6.

Claim 8. (currently amended) The system of claim [5] 6 in which the multiple separately defined selected areas of the substrate [includes] comprise a plurality

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of separately defined areas arranged <u>a matrix defined by</u> [in a matrix].

Claim 9. (currently amended) The system of claim [5] $\underline{8}$ in which the relationship of the number (\underline{N}) of <u>separately defined</u> areas in the rows to the number of <u>separately defined</u> areas $[(\underline{N})]$ in the columns is \underline{N} = columns.

Claim 10. (currently amended) The system of claim [6] $\underline{8}$ in which the relationship of the number (\underline{N}) of separately defined areas in one column to [of] the number of separately defined areas in an adjacent column is areas in column_N = N and areas in adjacent column [N+1] $\underline{N+1}$ = N+1.

Claim 11. (currently amended) The system of claim [6] \S in which the relationship of the number (N) of separately defined areas in one row to of the number of separately defined areas in an adjacent row is areas in row_N = N and areas in adjacent row $(N+1)_{N+1} = N+1$.

Claim 12. (currently amended) The system of claim 1 in which the plasma sources are controlled such that the materials originating from the sources are deposited [on an] upon an area of the substrate in at least one of 1) a sequential layer [by layer] deposition and 2) a co-deposition [relationship].

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Claim 13. (currently amended) [A substrate holder for the] The system of claim 8 [1 comprising] wherein the substrate comprises a side surface of a block positioned within the central location of the chamber, the block having a multiplicity of [longitudinally extending] cylindrical substrate elements extending from the side surface thereof, each cylindrical substrate element individually defining a selected area, [substrates] the cylindrical substrate elements maintained in an array of cylindrical columns and cylindrical rows formed within [in] the block, in which [an] the upper surfaces of the cylindrical substrate elements comprise the discrete areas [is] exposed to [the johs directed from] the sources.

Claim 14. (currently amended) The system [holder] of claim [11] 13 in which the cylindrical substrate elements are [upper surface of the substrate is] inset within the block in a matrix and a plate having a matrix of openings concentric with the matrix of elements in the block is applied facing the surface of the block, such that the openings in the plate are aligned with the elements and the cross-section area of an opening in the plate [upper surface of the column in the block in which the substrate is positioned is less than the [transverse] cros\$-section area of the [upper] surface of the corresponding concentric cylindrical [substrate] element [exposed to the ions directed from the sources].

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Claim 15. (currently amended) The system of claim [4] 6 in which the means for

controlling the sources of different ions includes programmed means for selecting

one or more than one of at least: 1) [means for selecting] a plasma source within

a cluster; 2) [means for controlling] the power and the duration of operation of the

source; and 3) [means for positioning] the position of the substrate such that a

selected area of the substrate is exposed to the plasma source for the duration of

operation determined.

Claim 16. (original) The system of claim 15 in which the means for selecting a

plasma source and the means for controlling the power and the duration of

operation of the source includes means for controlling the sources in essentially

the same operation such that plasma materials from the sources are co-

deposited with respect to an area on the surface of the substrate.

Claim 17. (original) The system of claim 15 in which the means for selecting a

plasma source and the means for controlling the power and the duration of

operation of the source includes means for controlling the sources in essentially

the same operation such that plasma materials from the sources are deposited

as layers with respect to an area on the surface of the substrate.

Claim 18. (new) The system of claim 13 in which the means for controlling the sources of different ions includes programmed means for selecting one or more than one of at least: 1) a plasma source within a cluster; 2) the power and the duration of operation of the source; and 3) the position of the substrate such that a selected area of the substrate is exposed to the plasma source for the duration

of operation determined.

Claim 19. (new) The system of claim 18 in which the means for selecting a

plasma source and the means for controlling the power and the duration of

operation of the source includes means for controlling the sources in essentially

the same operation such that plasma materials from the sources are co-

deposited with respect to an area on the surface of the substrate.

Claim 20. (new) The system of claim 18 in which the means for selecting a

plasma source and the means for controlling the power and the duration of

operation of the source includes means for controlling the sources in essentially

the same operation such that plasma materials from the sources are deposited

as layers with respect to an area on the surface of the substrate.